

AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A radar system comprising:
a head containing a radar transmitter and a radar receiver and configured to be closely associated with a radar antenna; and
a signal processing unit included with said head for processing a received radar signal signals and for combining the received radar signal signals with data from at least one other source sourees and configured to simultaneously process the received radar signal and output radar data in at least two different digital formats ~~multiple output data feeds for use by at least one display unit.~~
2. (Canceled)
3. (Currently Amended) A radar system as claimed in claim 1, ~~wherein the output data feeds include also arranged to output~~ a raw radar signal and a processed radar signal.
4. (Currently Amended) A radar system as claimed in claim 1, wherein the signal processing unit simultaneously outputs radar data signals for differing radar ranges.
5. (Previously Presented) A radar system as claimed in claim 1, wherein the signal processing unit is controllable by digital input signals.
6. (Previously Presented) A radar system as claimed in claim 1, wherein the signal processing unit receives control signals for the radar receiver and the radar transmitter.
7. (Canceled)
8. (Previously Presented) A radar system as claimed in claim 1, wherein a north heading signal is combined with the received radar signals to allow synchrony with other data feeds.

9. (Canceled)

10. (Previously Presented) A radar system as claimed in claim 1, wherein all signal processing is carried out digitally.

11. (Previously Presented) A radar system as claimed in claim 1, wherein the radar transmitter is controllable by digital signals from the signal processing unit.

12. (Currently Amended) A radar system as claimed in claim 1, wherein the output data digital formats feeds are to a standard specification.

13. (Previously Presented) A radar system as claimed in claim 1, wherein the output data feeds are encoded in USB, Firewire, Bluetooth or Ethernet protocol.

14. (Canceled)

15. (Previously Presented) A radar system as claimed in claim 1, wherein the output data feeds are distributed wirelessly.

16. (Previously Presented) A radar system as claimed in claim 1, in combination with a digital display unit which facilitates selection of one or more of the output data feeds from those provided by the radar system.

17. (Previously Presented) A radar system as claimed in claim 1, in combination with a digital display unit wherein the digital display unit has inputs allowing remote control of the radar transmitter, the receiver or the signal processing unit.

18. (New) A radar system according to claim 1, wherein said data from at least one other source includes GPS data.

19. (New) A radar system according to claim 1, wherein said data from at least one other source is combined with the radar data by multiplexing.

20. (New) A radar system according to claim 1, wherein said output radar data in at least two digital formats comprises any two or more of a decluttered signal, a moving target signal, a range ring signal, and a map signal.